

"APPROVED FOR RELEASE: Monday, July 31, 2000

CIA-RDP86-00513R000825920

Kozlovskiy, KiT

USSR/ Engineering - Conferences

Card 1/1

Pub. 124 - 22/28

Authors

1 Kozlovskiy, N. T., Memb. Corresp. of the Acad. of Sc., Kaz. SSR

Title

Cooperation between scientific and industrial laboratories

Periodical

Vest, AN SSSR 26/1, 97-99, Jan 1956

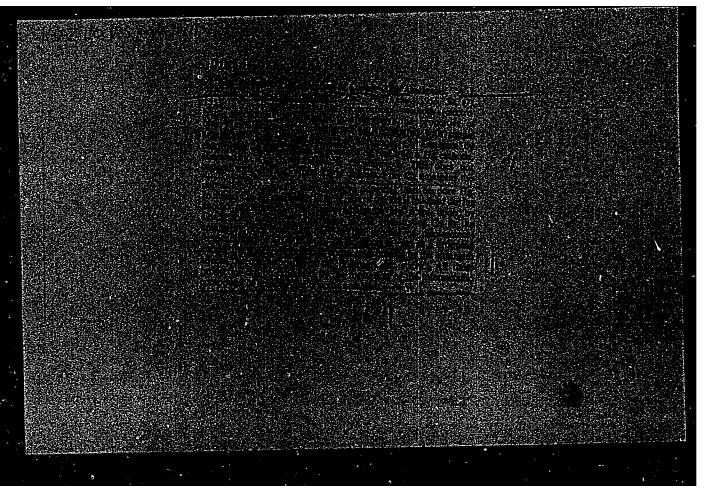
Abstract

Minutes are presented from a scientific-industrial conference held at the S. M. Kirov University of Alma-Ata where problems of closer cooperation between science and industry were discussed.

Institution:

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Submitted



RAZINA, N.F.: KCZLOVSKIY, M.T.: STENDER, V.V.

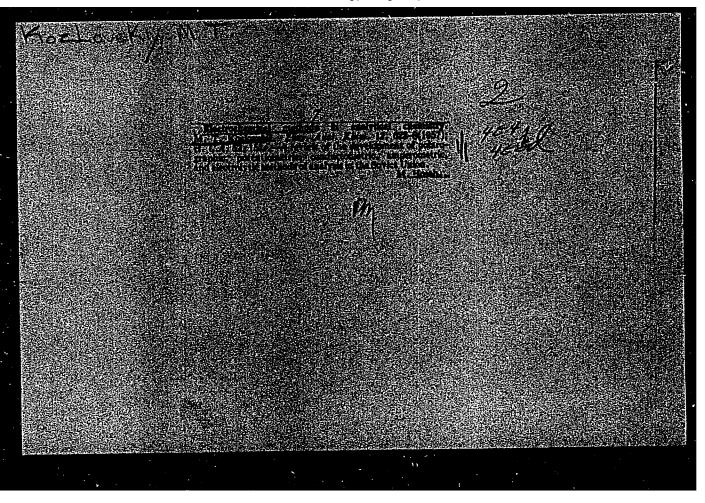
Lead anode destruction in the electrolysis of sulfate solutions Dokl.

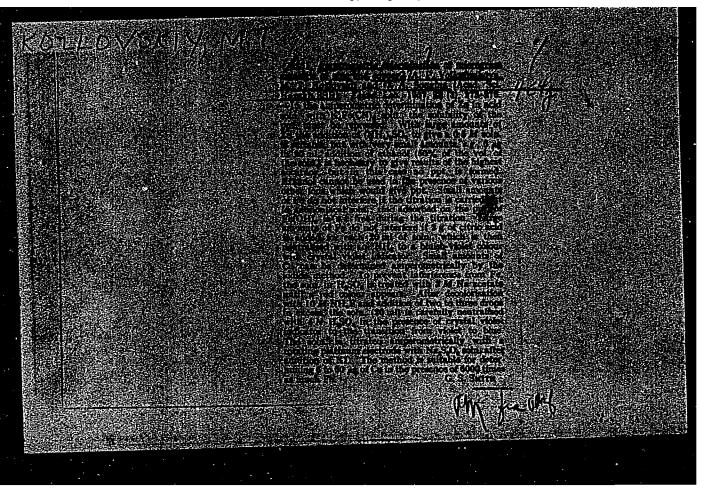
AN SSSR 111 no.2:404-406 N '56.

1. Dnepropetrovskiy khimiko-tekhnologicheskiy iustitut imeni P.E.

Dzerzhinskogo. Predstavleno akademikom S.I. Vol fkovichem.

Dzerzhinskogo. (Electrodes) (Lead—Electrometallurgy)





Kozlovskir, M.T.

32-8-2/61

AUTHORS:

Songina O. A., Kemeleva N. G., Kozlovskiy M. T.

TITLE:

The Use of Electrolytically Produced Permanganate Ions for the

Purpose of Coulombometrical Titration.

(Primeneniye elektroliticheski generirovannogo permanganat-iona

dlya tseley kulonometricheskogo titrovaniya - Russian)

PERIODICAL:

Zavodskaya Laboratoriya, 1957, Vol 23, Nr 8, pp 896-900 (USSR)

ABSTRACT:

The above-mentioned titration is used for the determination of a minimum foreign content in pure metals and permits to determine the content of an admixture of the order 10-12 g-ekv sufficiently rapid and accurate, in which connection an automatic control of the process is also made possible. The scientists Tutuntsich and Mladenovich proposed to use the permanganate ions that were electrolytically produced from the solutions of manganese sulfate in the coulombometrical titration. These scientists also found out that the production may best be carried out when the acid content of the solution is 4-10.n. In the work this is practiced within the limits 7-10.n of sulfuric acid, and for comparison processes were also carried out at 1-n H2SO4. In the section "The volt-ampere curve Fe2+ and Fe3 +" it is shown that on an internal reagent production in the

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presence of the same electrolyzer different ions can be determined.

The Use of Electrolytically Produced Permanganate Ions for the Purpose of 32-8-2/61 Coulombometrical Titration.

It is proved here that beside Mn2 + and MnO4 ions in the solution Fe2+ and Fe3 r ions may also occur. In the next section entitled "Coulombometric titration of iron" the mentioned process is described in connection with the application of a special apparatus (a scheme is given). By an illustration the application of a special electrolyzer which is used in this connection is described. This electrolyzer permits up to 15 determinations per hour. The conclusion is drawn that the titration of 6 to 56 %-iron in the described manner yields accurate results. In the case of smaller quantities the possibility of errors increases. With regard to the use of the electrolytically produced permanganate ion it is said that it is rendered difficult in iron determinations due to the reversibility of the system Fe2+/Fe3+, but that it is simple when the latter is absent. (There are 6 illustrations, 1 table, 8 references).

ASSOCIATION: Kazakb State University.

(Kazakh-kiy gosudarstvennyy universitet).

AVAILABLE: Library of Congress.

Card 2/2

"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000825920

.AUTHOR:

Kozlovskiy, E. T., Professor, Doctor of Chemical Sciences

32-10-7/32

TITLE:

Comments

PERIODICAL:

Zavodskaya Laboratoriya, 1957, Vol. 23, Nr. 10, pp. 1174-1175 (USSR)

ABSTRACT:

In the report published by the author on the occasion of the 4oth anniversary of the October revolution it is stated that the main task of the present analytical chemistry consists in. 1) Determi= nation and investigation of the properties of all periodic elements which are contained in an only small percentage in a substance. 2) Shortening of the period of analysis. 3) Automation of the processes of analysis with telemechanical registration of the results. The microchemical analysis-methods, the drop-, and microdosis-me= thod, the methods of application of organic reagents in inorganic analysis, chromatographic analysis, the application of ions, the method of photocolorimetry, spectrophotometry, and flame-photometry, as well as radiochemical methods of analysis experienced an intense development through the solution of these problems. Among recent electrochemical methods polarography was preferably developed, especially in the field of polarographic maxima, of the surface-acti= vation-substances, of amalgam polarography, as well as the use of

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Comments

32-lo-7/32

hard electrodes. The methods of oscillographic polarography remained insufficiently developed in the USSR. Successful work was performed, however, in the fields of ammeric titration which was preferred to conductometric titration, high-frequency titration to which, however, according to the opinion of the author, too little attention is paid. In the USSR, the potentiometric methods, especially with respect to the determination of the pH_value, the cobalt_content, classical electroanalyses which make it possible to carry out a particularly accurate separation of the metals, as well as a precise precipitation of the metals with mercury cathode and amalgam anode oxidation, further the methods of interval electrolysis which is applied with the determination of traces of metal, and finally the method of ce= mentation which proved to be especially practical and simple in re= moving disturbing components or traces. The use of amalgams in the latter case is very promising. Though the method of coulombometric (kulenmetrikh) analysis originated in the USSR it is less developed in this country than abroad. The same can be stated with regard to coulombometric titration which for the first time was proposed by Hungarian chemists. The field of electrochronometry is also little developed in the USSR. These defects are attributed to the backward= ness in the corresponding branches of industry in the USSR, since most of the outfit and appartuses must be constructed by the inven=

Card 2/3

Comments

32-10-7/32

tor himself, because the respective industrial branches have still too little adaptability in the manufacture of complicated appliances.

ASSOCIATION:

Kazakh State University (Kazakhskiy gosudarstvennyy univer-

sitet).

AVAILABLE:

Library of Congress.

1. Chemistry-USSR-Progress

Card 3/3

20

KOZLOVSKIY, M.T. SOV/1699 PHASE I BOOK EXPLOITATION Akademiya nsuk Kazakhskoy SSR. Institut khimicheskikh nsuk 5(2) 17.1.2.3 Issledovaniya po elektrokhimii vodnykh rastvorov i rasplavov i amaligamnoy metallurgii (Research on the Electrochemistry of Water Solutions, Fusions and Amalgam Metallurgy) Alma-Ata, Izd-vo AN Kaz. SSR, 1958. 122 P.

(Series. Tts. Wride to X) 1 XOO series wented Ed.: V.V. Aleksandriyskiy; Tech. ed.: Z.P. Rorokina; Editorial Board of Series: (Series: Its: Trudy, t. 3) 1,300 copies printed. I.I. Zabotin, V.M. Ilyushchenko, G.Z. Kirlyakov (Deputy Resp. Ed.), PURPOSE: This book is intended for scientists and engineers in the electrochemical. COVERAGE: This collection contains 14 reports by the Laboratories for Analytical Chemistry and Electrochemistry attached to the Institute of Chemical Sciences, Academy of Sciences, Kazakhstan Republic. The smalgam method of obtaining that lead resident the slant science of the same state of the thallium from lead powder, the electrolysis of sulfate solutions of zinc and the impoverishment of waste slag during nickel production are described. The majority of articles have a practical nature and deal with problems of Card 1/4 **APPROVED FOR RELEASE: Monday, July 31, 2000** CIA-RDP86-00513R00082 Research on the Electrochemistry of Water Solutions (Cont.) SOV/1699 developing and perfecting new electrochemical methods for the production of nonferrous metals. TABLE OF CONTENTS: Foreword 3 Kozlovskiy, M.T., M.V. Nosek, S.P. Bukhman, P.I. Zabotin, and V.M. Ilyushchenko. Water Lixiviation of Thallium From Sinter Bars of the Chimkent Lead Plant 5 Kozlovskiy, M.T., S.P. Bukhman, M.V. Nosek, V.M. Ilyushchenko, and P.I. Zabotin. Displacement of Thallium From Industrial Solutions by Zinc Amalgam 15 Kozlovskiy, M.T., S.P. Bukhman, M.V. Nosek, V.M. Ilyushchenko, P.I. Zabotin, and A.I. Zebreva. Electrolytic Decomposition of

Amalgam During the Production of Thallium From Powders of the

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Chimkent Lead Plant

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rd 4/4	

ILYUSHCHENKO, V.M.; KOZLOVSKIY, M.T.

Separation of cadmium and indium by anode exidation of mixed amalgams. Izv. AN Kazakh. SSR. Ser.khim. no.1:23-28 158.

(Cadmium--Analysis) (Indium--Analysis)

(Oxidation)

AUTHORS:

Babkin, G.N., Kozlovskiy, M.T.

153.58-1-20/29

TITLE:

Electrochemical Investigation of Cobalt-Zino Amalgams

(Elektrokhimicheskoye issledovaniye kobal'to-tsinkovykh amal'gam)

PERIODICAL:

Izvestiya vysshikh uchebnykh zavedeniy. Khimiya i khimicheskaya

tekhnologiya, 1958, Nr 1, pp. 129-136 (USSR)

ABSTRACT:

In order to solve the problem of the character of the interaction between cobalt and zinc in amalgam the authors carried out a number of investigations. First, reference is made to the works by Speranskiy, Tsyb and Kozlovskiy (Ref 2), Tsyb (Ref 3,4) and Speranskiy (Ref 5). In the course of the present paper the authors describe the (polarographical) investigations of cobalt-zinc amalgams carried out by them, in the course of which they found that the anode wave height of zinc is reduced in the case of an increased concentration of cobalt in the amalgam. Proportionally, the reduction of the zinc wave does not correspond to the cobalt content in the amalgam. The authors measured the reversible potentials, on which occasion the influence exercised by the concentration of co-

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balt upon the potential of the zinc amalgam was again determined. The authors assume the reduction of the zinc wave and the modifica-

Electrochemical Investigation of Cobalt-Zinc Amalgam

153.58-1-20/29

tion of the amount of the potential depends upon the intermetallic cobalt-zinc compound which is subjected to partial dissociation. On the basis of the results obtained by measuring the wave-height of zinc for various relations between zinc and cobalt in the amalgam it was possible to determine the dissociation constant and the formula of the compound formed. The dissociation constant was also determined on the strength of potentiometric measurements and was of the same order as that mentioned. There are 5 figures, 3 tables, and 12 references, 12 of which are Soviet.

ASSOCIATION: Kazakhskiy universitet im. S.M.Kirova i institut khimicheskikh nauk AN Kaz.SSSR. Kafedra analiticheskoy khimii (Kazakh versity imeni S.M.Kirov and Institute of Chemical Sciences AS Uni-Kazakhstan SSR, Chair of Analytical Chemistry)

SUBMITTED:

October 5, 1957

Card 2/2

KOZIOVSKIY, M.T., prof.

Amalgam methods for obtaining metals. Khim. nauka i prom. 3 no.4:
439-1443 '58. (MIRA 11:10)

(Amalgamation) (Electrometallurgy)

AUTHORS:

Bukhman, S.P., Nosek, M.V., Kozlovskiy, E.T.

32--24-4-4/67

TITLE:

An Accelerated Method for the Polarographic Determination of Indium (Uskorennyy metod polyarograficheskogo opredeleniya indiya)

PERIODICAL:

Zavodskaya Laboratoriya, 1958, Vol. 24, Nr 4, pp. 392-395 (USSR)

ABSTRACT:

A number of tests confirmed the fact that indium from 10% sulfuric acid solutions with zinc amalgam does not cement. This knowledge is utilized for the elimination of accompanying elements. In the case of the treatment of indium solutions with zinc amalgam, copper, thallium, and cadmium are reduced to the metal and penetrate into the amalgam, whereas arsenic III and partly antimony, tellurium and selenium remain on the amalgam surface. The latter may lead to part of the indium goirgover into the amalgam. In order to remove arsenic V, which cannot be quantitatively reduced during treatment with zinc amalgam without causing a loss of indium, the solution is treated with iron reduced in hydrogen and in a 4n sulfurio acid medium. During polarization itself, it is true that also the presence of antimony, which must first be removed, disturbs. From the process of analysis given it may be seen that a

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An Accelerated Method for the Polarographic Determination of Indium

32-24-4-4/67

2% zinc amalgam solution is used and that at least 75 g/l NaCl is added. However, polarograms are made within a potential range of from -0.45 -0.8 V. The method was employed for determining indium in the dust of a lead mine and gives results which agree well with those obtained by the usual method of determination of the Giutsvetmet. If two standard samples are used determination is said to take from 40 to 50 minutes. Results are given in a table. There are 1 figure, 2 tables, and 7 references, 6 of which

ASSOCIATION: Institut khimicheskikh nauk Akademii nauk Kazakhskoy SSR (Institute for Chemical Sciences AS Kazakh SSR)

- 1. Indium compounds--Analysis 2. Indium--Determination
- 3. Metals--Separation 4. Polarogrpahic analysis

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KOZLOVSKIK M.T

136-1-7/20

AUTHORS: Kozlovskiy, M.T., Zabotin, P.I., Ilyushchenko, V.M.,

Bukhman, S.P., Nosek, M.V., Sergiyenko, V.Ya. and Malkin,

Ya.Z.

TITIE: Use of an Amalgam Method for Extracting Thallium from Chimkent . Lead Works Dust (Primeneniye amal'gamnogo

metoda k izvlecheniyu talliya iz pyley chimkentskogo

svintsovogo zavoda)

PERIODICAL: Tsvetnyye Metally, 1958, No.1, pp. 30 - 41 (USSR).

ABSTRACT: The work described was based on theoretical and applied work on amalgam methods of separating and producing metals at the Chemical-sciences Institute of the Ac.Sc. KazakSSR (Institut khimicheskikh nauk AN KazSSR) and the Kazakhsk State University imeni S.M. Kirov (Kazakhskiy gosudarstvennyy universitet im. S.M. Kirova) under the direction of M.T. Koslovskiy (Refs. 1-8). The following participated in the work: A. Zebreva, Candidate of Chemical Sciences, V. Gladyshev of the University and M. Levanov, V. Prachev, Ye. Rubanova, M. Shalaginova, G. Nosov and Yu. Stolyarov of the Chimkentsk Lead Works. K. Simakov and L. Ushkov of the Works helped to organise the semi full-scale trials and I. Yudevich and N. Karpenko analysed spectroscopically for thallium and

Cardl/3 N. Popova did chemical and polarographic analyses with O. Orsa

136-1-7/20

Use of an Amalgam Method for Extracting Thallium from Chimkent Lead Works Dust

of the Chemical-sciences Institute of the An KazSSR. Sinteringdust analyses for different periods are tabulated (Table 1) and laboratory-scale experiments with the dust are described. Here, roasting of 20-25 kg batches was carried out at 400 - 500 °C, showing (Fig.1) that an appreciable part of the sulphide sulphur and thallium is eliminated within the first hour at 400 °C. Four-fold leaching of the dust (two 250-g samples) with water at 80 - 90 °C showed (Table 3) that 80-90% of the thallium was extracted in the water, the extraction increasing with temperature. Cementation of thallium with zinc amalgam was carried out on the acidulated extract which was continuously circulated (Fig. 3): the results (Table 4) showed that 98-99% extraction of thallium from the solution could be obtained. It was shown that the amalgam (originally 0.36 - 0.40 g/litre Zn, 0.127 g/litre Cd and 108 mg/litre Tl) could be decomposed by anodic oxidation with special electrolytes at current densities of 100 - 50 A/m2, the density being gradually reduced as the appropriate metal was removed from the amalgam. The flow-sheet based on the laboratory results (Fig. 4) was put into practice in a larger scale plant (Fig. 5) at the Chimkensk Works, where it card2/3

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Use of an Amalgam Method for Extracting Thallium from Chimkent Lead Works Dust

treated several tons of dust from April to October, 1956 and was used for balance experiments in October of that year. The article gives details of the different stages and balances for the different metals. These show that with the proposed method pure metallic thallium can be obtained with a yield of 65%, about 30% being in returns and 5% being lost. An editorial note invites discussion on the amalgam method. There are 5 figures, 13 tables and 10 Russian references.

ASSOCIATION:

Institute of Chemical Sciences of the Ac. & KazSSR

(Institut khimicheskikh nauk AN KazSSR) and

Chimkent Lead Works (Chimkentskiy svintsovyy zavod)

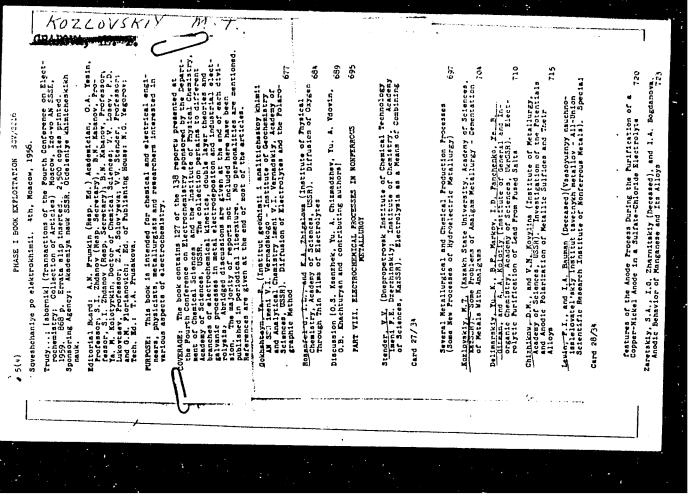
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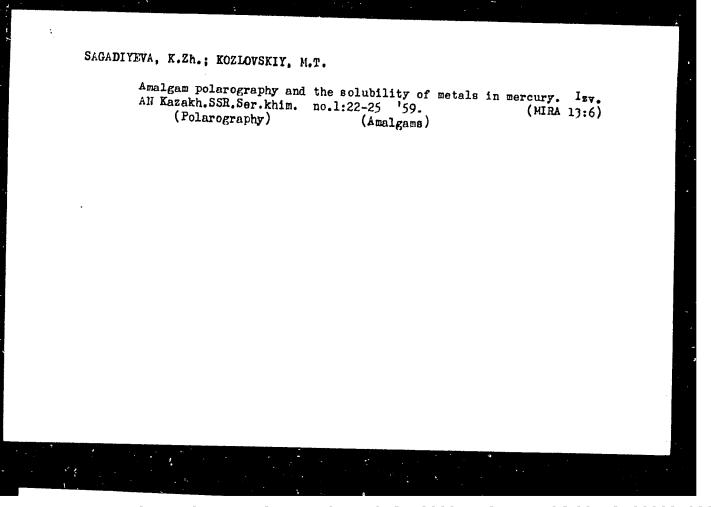
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CIA-RDP86-00513R000825920



APPROVED FOR RELEASE: Monday, July 31, 2000

CIA-RDP86-00513R0008259200



Electrolysis of antimony with the use of mercury electrode. Izv.
AN Kazakh.SSR.Ser.khim.
(Antimony)

(Antimony)

5(2) AUTHORS:

Speranskaya, Ye. F., Kozlovskiy, M. T. SOV/153-2-1-1/25

TITLE:

Reduction of Selenium by Cadmium Amalgam (Vosstanovleniye selena amal'gamoy kadmiya)

PERIODICAL:

Izvestiya vysshikh uchebnykh zavedeniy. Khimiya i khimicheskaya tekhnologiya, 1959, Vol 2, Nr 1, pp 3-9 (USSR)

ABSTRACT:

In the latest publications dealing with the amalgam methods of metal separation the behavior of selenium was not taken into account. The investigation of the afore-mentioned problem is interesting from two points of view: 1) with respect to the quantitative separation of selenium from other elements; 2) with respect to its effect on the "formation of slime" (transformation of amalgam into a fine suspension which forms no drops). This article deals with the reduction of Se (IV) under various conditions. Figure 1 shows the variation in the current intensity with time during the electrolysis of an H₂SeO₃ solution on a dropping mercury electrode. The reduction was performed in a container illustrated in figure 2. Table 1 shows the cadmium-amalgam potentials in various media with regard to the usual H-electrode. These were: a) HCl; the results

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Reduction of Selenium by Cadmium Amalgam

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dependent on various HCl concentrations are listed in table 2; b) H₂SO₄; the results are given in table 3; c) HNO₃ (see Table 4). Figure 4 illustrates the variation in the amalgam content during the cementation. The authors proved that within the range of concentration of the acids (0.001 - 1 mol) selenium may be removed from the solution due to its production of mercury selenide. Selenium is not reduced from ammoniacal solutions. 3) The authors assumed that it is not the selenide ion but elementary selenium that constitutes the final stage in the reduction of selenium from acid solutions. Mercury selenide is produced by immediate interaction of elementary selenium with metallic mercury. 4) Further, they suppose that the occurrence of three potentiometric waves of selenium reduction is not connected with the formation of various reduction products of Se (IV) but with the inhibitory effect of the mercury-selenide film on the surface of the mercury drop. There are 4 figures, 4 tables, and 20 references, 13 of

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Reduction of Selenium by Cadmium Amalgam

SOV/153-2-1-1/25

ASSOCIATION:

Kazakhskiy gosudarstvennyy universitet im. S. M. Kirova, Kafedra analiticheskoy khimii (Kazakh State University imeni

S. M. Kirov, Chair of Analytical Chemistry)

SUBMITTED:

November 27, 1957

Card 3/3

5(2)

AUTHORS:

Zebreva, A. I., Kozlovskiy, M. T.

SOV/32-25-10-6/63

05717

TITLE:

Application of Mixed Backgrounds in the Polarographic Determination of Thallium

PERIODICAL:

Zavodskaya laboratoriya, 1959, Vol 25, Nr 10, pp 1172-1174

(USSR)

ABSTRACT:

A simple and rapid method of determining thallium in solutions centaining, besides thallim, small quantities of ked, endmine, cine and arsenic, as well as traces of selenium, antimony, bismuth, iron and copper, was developed. The method is based on polarography in an alkalineammoniacal solution. Data on an ammonia ammonium-salt background are found in Vlock's (Ref 1) tables, but there are no publication data on an alkaline-ammoniacal background. Thallium determinations were carried out in the presence of lead and cadmium in a ratio corresponding to industrial conditions (Table 1). The polarography was carried out on a visual polarograph with a galvanometer of a sensitivity of $1.7 \cdot 10^{-9}$ a. Zinc does not dis-

turb the determination whereas the disturbance by copper (appearance of two peaks) can be eliminated by subtracting the

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Application of Mixed Backgrounds in the Polarographic Determination of Thal-

first coppor peak from the joint thallium-copper peak (Table 2). The background suggested is suitable for polarographic thallium determinations in solutions obtained by lixiviating the thallium from the dust of lead works. The method may also be used for analyzing samples with a higher cadmium- and lead content; but here the concentration of ammonia, or of must accordingly be changed (Table 3) to prevent the formation lye, respectively, of precipitates. There are 3 tables and 1 reference.

ASSOCIATION:

Kazakhskiy gosudarstvennyy universitet (Kazakh State University)

Card 2/2

NOSEK, M.V.; BUKHMAH, S.P.; KOZLOVSKIY, M.T.

Reduction of arsenic by zinc amalgam. Report No. 2. Izv. AN Kazakh. SSR. Ser. khim. no.1:77-85 '60. (MIRA 13:11) (Zinc-mercury alloys)

BUKHMAN, S.P.; NOSEK, M.V.; KOZLOVSKIY, M.T.

Reduction of arsenic by sinc amalgam. Report No.1. Izv. AN Kazakh.
SSR.Ser. khim. no.1:69-76 '60. (MIRA 13:11)

(Arsenic) (Zinc-mercury alloys)

GLADYSHEV, V.P.; KOZLOVSKIY, M.T.

Use of oscillographic polarography in the study of the anodic oxidation of complex amalgams. Izv. AN Kazakh. SSR Ser. khim. no. 2:61-66 '60. (MIRA 14:5)

(Amalgams) (Polarography)

GLADYSHEV, V.P.; ILYUSHCHENKO, V.M.; KOZLOVSKIY, M.T.

Causes of sludge formation in the preparation of thallium by the amalgam method. Izv. AN Kazakh. SSR Ser. khim. no. 2:67-74 '60.

(Thallium)

(Thallium)

Use of trilon B in thallium refining. Trudy Inst.khim.nauk AN Kazakh. SSR 6:61-66 '60. (MIRA 14'4)

(Acetic acid)

Oxidation potentials of lead and thallium amalgams in alkaline solutions. Trudy Inst.khim.nauk AN Kazakh.SSR 6:54-60 (60.

(MIRA 14'4)

(Amalgams) (Electromotive force)

NIGMETOVA, R.Sh.; KOZLOVSKIY, M.T.

Interaction between tetravalent and divalent germanium, and zinc amalgam. Trudy Inst.khim.nauk AN Kazakh.SSR 6:144-151 '60.

(Germanium)

(Zinc)

(MIRA 14:4) (Cementation (Metallurgy))

KOZLOVSKIY, M.T.: BUKHMAN, S.P.; NOSEK, M.V.

Effect of copper ions on the reduction of arsenic by zinc amalgam. Trudy Inst.khim.nauk AN Kazakh.SSR 6:115-122 '60. (MIRA 14:4) (Arsenic) (Copper) (Zinc)

BUKHMAN, S.P.; NOSEK, M.V.; KOZLOVSKIY, M.T.

Reduction of arsenic by zinc amalgam in the presence of iron and antimony ions. Trudy Inst.khim.nauk AN Kazakh.SSR 6:123-130 '60. (MIRA 14:4)

(Arsenic)

(Zinc)

NOSEK, M.V.; BUKHMAN, S.P.; KOZLOVSKIY, M.T.

Effect of temperature on the reduction of arsenic by zinc amalgam. Trudy Inst.khim.nauk AN Kazakh.SSR 6:131-137 '60. (MIRA 14 4) (Arsenic) (Zinc)

85636

S/075/60/015/005/007/026/XX B002/B056

26.1620

Speranskaya, Ye. F. and Kozlovskiy, M. T.

TITLE:

AUTHORS:

The Reducing Properties of Mercury V

PERIODICAL:

Zhurnal analiticheskoy khimii, 1960, Vol. 15, No. 5,

pp. 534 ~ 540

TEXT: When investigating electrochemical processes in mercury or amalgam electrodes, the reducing effect of mercury is mostly neglected. This may lead to errors in the case of polarographic work. The present paper therefore investigates the reducing effect of metallic mercury in various media upon the following ions: Copper (II), iron (III), selenite, tellurite, permanganate, bichromate, molybdate, jodate, vanadate, persulfate, and arsenate. A corresponding solution together with metallic Hg was shaken in a separating funnel or in a special vessel of 50 ml capacity for 15-20 minutes, mercury was separated, and a possibly existing precipitate was, in addition, filtered off and investigated (Tables 2 and 3). The following additions were added to the solutions (Table 2): NH₄Cl, NH₄Cl+NH₄OH, (NH₄)₂SO₄. KSCN, KJ, NaOH.

Card 1/2

85636

The Reducing Properties of Mercury

S/075/60/015/005/007/026/XX

The reaction in 1-6 N HCl and ${
m H_2SO_4}$ was investigated (Table 3). The reduction potential of mercury was determined in each case. It was found that in alkaline, neutral and acid media permanganate and persulfate are reduced, iron (III) and molybdate only in non-acidified and acid media. Selenite, tellurite, vanadate, jodate, chromate, and copper (II) are reduced only in acid solutions. Considerable influence is exerted on the reduction not only by acidity but also by the presence of other anions which shift the anode oxidation potential of mercury. The potential of mercury in the process of reduction depends on the nature of the depolarizer and of the reduced ion. An investigation of the cementation of copper and tellurium (Table 4) by cadmium amalgam showed that, together with cadmium, also mercury participates in the reaction. There are 4 tables and 25 references: 8 Soviet, 8 US, 5 British, 2 German. 1 Czechoslovakian, and 1 French.

ASSOCIATION:

Kazakhskiy gosudarstvennyy universitet im. S. M. Kirova,

Alma-Ata (Kazakh State University imeni S. M. Kirov,

Alma-Ata)

SUBMITTED:

July 8, 1959

Card 2/2

ZEBREVA, A. I.; KOZLOVSKI, M. T.

Solubility of antimony in mercury. Coll Cz Chem 25 no.12:3188-3194 D 60. (EEAI 10:9)

1. Akademiya nauk Kazakhskoy SSR i Kazakhskiy gos. universitet, Alma-Ata, SSSR.

(Antimony) (Mercury)

APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R0008259200

1

ILYUSHCHENKO, V.M.; KOZLOVSKIY, M.T.

Cementation of copper-cadmium solutions with zinc amalgam.

Izv.AN Kazakh. SSR. Ser.khim. no.1:47-51 '61. (MIRA 16:7)

(Intermetallic compounds) (Cementation (Metallurgy))

KOZLOVSKIY, M.T.

On the problem of hydrogen overvoltage. Vest. AN Kazakh. SSR 17 no.12:81-82 D 161. (MIRA 15:3)

1. Chlen-korrespondent AN KazSSR. (Hydrogen) (Electrolysis)

5/081/62/000/017/029/102 B162/B101

AUTHORS:

Nigmetova, R. Sh., Kozlovskiy, M. T.

TITLE:

The reduction of germanium by zinc amalgam in the presence

of copper

PERIODICAL:

Referativnyy zhurnal. Khimiya, no. 17, 1962, 98, abstract 17V78 (Izv. AN KazSSR. Ser. khim., no. 2(20), 1962, 38-41

[summary in Kaz.])

TEXT: In the reduction of Ge by Zn amalgam the presence of Cu ions in the solution has a great influence on the relation between the different products of reduction: increasing greatly the quantity of Ge, which is changing into amalgam, and lowering the quantity of suspended elementary Ge. Similar effect has the presence of Cu in amalgam when Ge is reduced on the Hg cathode. The reason of such an effect of Cu is its reaction with Ge under the formation of intermetallic compounds. [Abstracter's note: Complete translation.]

Card 1/1

BUKHMAN, S.P.; NOSEK, M.V.; KOZLOVSKIY, M.T.

Effect on indium ions on the reduction of arsenic by zinc amalgam. Trudy Inst. khim. nauk AN Kazakh. SSR 9:122-130 162. (MIRA 16:6)

(Arsenic) (Amalgams) (Indium compounds)

NOSEK, M.V.; BUKHMAN, S.P.; KOZLOVSKIY, M.T.

Reduction of a mixture of tri- and pentavalent arsenic by zinc amalgam. Trudy Inst. khim. nauk AN Kazakh. SSR 9:131-134 (MIRA 16:6)

(Arsenic) (Reduction, Chemical) (Amalgams)

S/850/62/009/000/010/012 B117/B186

AUTHORS:

Kozlovskiy, M. T., Nigmetova, R. Sh.

TITLE:

Germanium reduction in the presence of nickel and cobalt ions

SOURCE:

Akademiya nauk Kazakhskoy SSR. Institut khimicheskikh nauk. Trudy. v. 9. Alma-Ata, 1962. Elektrokhimiya rastvorov i

metallicheskikh sistem, 151-156

TEXT: The effect of nickel and cobalt on the behavior of germanium during its cementation with zinc amalgam was studied by a method described previously (Izv. AN KazSSR, ser. khim., 2(20) 38 (1962)). It was shown that the smallest amounts of nickel in the solution are sufficient to transfer germanium, except for a very small portion, into the amalgam. The potential of zinc amalgam remains practically unchanged. When the concentration of Ni in the solution is increased, germanium is reduced slowly but completely, nickel being cemented first of all. Simultaneously, the potential of zinc amalgam is slightly shifted toward positive values. The electrolysis of germanium salt with a mercury cathode in the presence of nickel ions, as well as on nickel amalgam, showed that nickel ions in

Card 1/2

Germanium reduction in the ...

S/850/62/009/000/010/012 B117/B186

the solution, not metallic nickel atoms are responsible for the transfer of germanium into the amalgam. No satisfactory explanation of the effect of nickel ions on the germanium reduction could be given. The cementation of germanium with saturated zinc amalgam in the presence of cobalt showed that here again the germanium is reduced down to the elementary state, forming amalgam. Cobalt ions affect the process similarly to nickel ions, the only difference being that germanium and cobalt are cemented more slowly when larger amounts of cobalt are used. There are 1 figure and 8 tables.

Card 2/2

MIRKIN, V.A., KOZLOVSKIY, M.T.

Electrochemical behavior of tetra- and pentavalent vanadium on a platinum microelectrode. Zhur.anal.khim. 17 no.61704-710 S 162. (MIRA 1611)

1. Institut khimicheskikh nauk AN KarssR, Alma-Ata.
(Vanadium-Electric properties)
(Electrodes, Propping mercury)

MIRKIN, V.A.; KOZLOVSKIY, M.T.

Region of the existence of vanadyl vanadates in relation to the pH of the medium. Zhur. neorg. khim. 8 no.6:1538-1539 Je *163. (MIRA 16:6)

1. Institut khimicheskikh nauk AN KazSSR.

(Vanadium compounds—Absorption spectra)

(Hydrogen-ion concentration)

GLADYSHEV, V.P.; KOZLOVSKIY, M.T.

Reduction of selenite ion and tellurite ion by zinc amalgam. Izv. vys.ucheb.zav.;khim.i khim.tekh. 6 no.5:724-728 '63. (MIRA 16:12)

1. Kazakhskiy gosudarstvennyy universitet, kafedra analiticheskoy khimii.

KOZLOVSKIY, M.T., akademik

Amalgam metallurgy. IUn. tekh. 7 no.8:27-32 Ag '63.
(MIRA 16:10)

1. Akademiya nauk Kazakhskoy SSR.

DRAGAVTSEVA, N.A.; USENOVA, Z.M.; YERDENBAYEVA, M.I.; KOZLOVSKIY, M.T.

Interaction of elementary selenium, selenides, and selenites of certain metals with sodium amalgam. Zhur.anal.khim. 18 nc.6:773-776 Je '63. (MIRA 16:9)

L 11111-63

EWP(q)/EWT(m)/BDS

AFFTC/ASD

8/032/63/029/005/005/022

AUTHOR:

Omerova, K.D. and Kozlovskiy, M.T.

TITLE:

Coulometric determination of thallium at a controlled potential

PERIODICAL: Zavodskaya Laboratoriya, v. 29, no. 5, 1963, 528-530

A method of coulometric determination of thallium is described, based on the Lingane method, and the possibility of using the MacNevin and Baker method with a mercury electrode is shown. The relative error in determination of 0.2 - 2.0 mg Tl is 0.48 - 11.5%. There are 3 figures and 1 table. The most important English-language references are: (1) J.J. Lingane, J. Am. Chem. Soc., 67, 1916 (1945) and (2) W.M. MacNevin and V.B. Baker, Anal. Chem., 24, 986 (1952).

ASSOCIATION: Kazakhskiy politekhnicheskiy institut 1 Kasakhskiy gosudarstvennyy universitet im. S. M. Kirova (Kazakh Polytechnic Institute and Kazakh State University imeni S. M. Kirov)

Ja/Ch

Card 1/1

MIRKI, V.A.; KOZLOVSKIY, M.T., akademik

Study of the composition and properties of vanadyl vanadates by spectrophotometry. Dokl. AN SSSR 150 ns.2: 317-320 My 163. (MIRA 16:5)

1. Institut khimicheskikh nauk AN KazSSR (for Kozlovskiy). (Vanadates) (Spectrophotometry)

GPERMISKATA, Ye.F.; KOZIOVICIT, E.T.

Polarographic reduction of hexavalent molybichum in fluoridecentaining acid solutions. Zav.lab. 30 no.4:403-406 (64.
(MTRA 17:4)

1. Kazakhskiy gosudarstvennyy universitet imeni girova.

MIRKIN, V.A.; KOZLOVSKIY, M.T.

Relation between the shape of pentavalent vanadium polarograms and the structure of its ions in aqueous solutions as dependent on pH. Izv.vys.ucheb.zav.; khim. i khim. tekh. 6 no.6:901-908 '63. (MIRA 17:4)

1. Kazakhskiy gosudarstvennyy universitet imeni Kirova, kafedra analiticheskoy khimii.

KOZLOVSKIY, M.T.; GRUSHINA, N.V.

Chronometric method for the determination of bismuth. Zhur. anal. khim. 18 no.5:585-587 My'63. (MIRA 17:2)

1. Kazakhskiy gosudarstvennyy universitet imeni Kirova, Alma-Ata.

Amalgam polarography of manganese. Vest. AN Kazakh. S.R. 19 no.5:85-87 My 163. (Mild. 17:7)

I 2308(265 DWT(m)/ENP(4)/EWP(4)/E320P(6)/

ACCEPSSION NINE ADMIT 19824

8/0360/64/000/002/0003/0009

AUTION ROSIOUSKVEMEN CHERY NIEV VER CHYDEKDS IS TO Tember GA

(1006): Preparation of high murity biamuth in an electrolyser with bipolar amalgam

SOURCE: AN Kazsar - Izvojeve serve khimioheakikh nauk, no. 2, 1964, 3-9

TOPIC TAGS: bismuth refining electrolytic bismuth, electrolytic refining amalgament of the controls.

ABSTRACT! The miclear and semiconductor industries require bismuth with a perty of \$99997. Conventional refining methods by xonal melting combined with electrockemistry are extremely laborious. The authors interespective describe an effective memory of refining as claimed in their author's certificate No. 161 (121 (1962)) by electrolysis using big polar amalgam alsotyones. The alectrolyzer (see Fig. 1 of the Enclosure) is made of playing and comparison of which the first contains the anode (i. x 5 cm.) plate of crude bismuth in a sinylidens coloride labric bas to retain studge), while the second, third and fourth comparisons serve for electrolyte separation of B1 from the purities during its transit inrough the impolar amalgam alectrodes. In the fifth comparison, bismuth is transferred from the amalgam areas to the electrolyte and simultaheolisty

Card 1/1

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ACCESSION NIK - AP4049824

deposited as metallic bismuth on a solid cathode of spectroscopically pure graphite with data rea of 40 cm². Perchlorate (compartments) 2.5) and alkali sartrate (compartments) and 4) solutions are used as slectrolytes in which bismuth forms complex ions and is not subject to hydrolysis. During the drat stage amalgams and alectrolytes are saturated with Bi with the sid or a small additional Pt electrode consecutively immersed in each compartment. After that, a continuous operation at 100 ma/om² current density begins. Retined Bi is maked off the cathode every 20 line, and vacuum remelted for the elimination of Hg residues (10.4%) and degassing Bi purity resones 99 9997% with 3x10.4% impurities divided among 24 components. Originat: hast I figure and 3 tables:

ASSOCIATION None

SUBMITTED: 00

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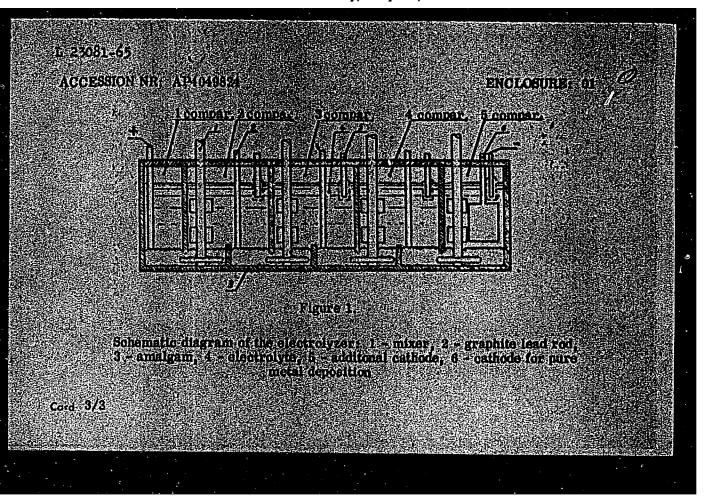
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Card 2/8

APPROVED FOR RELEASE: Monday, July 31, 2000

CIA-RDP86-00513R000825920(



DRAGAVTSEVA, N.A.; KOZLOVSKIY, M.T.

Reduction of trivalent antimony by exdmium amalgam in sulfuric and hydrochloric acid solutions. Trudy inst. khim. nauk AN Kazakh.SSR 12:131-136 '64. (MIRA 18:2)

BRIKUN, I.K.; KOZLOVSKIY, M.T.

Interaction of hydroxylamine with arsenic, antimony, and bismuth compounds. Zhur. anal. khim. 19 no.2:212-215 '64.

(MIRA 17:9)

1. Kazakhskiy gosudarstvennyy universitet imeni Kirova, Alma-Ata.

KOZLOVSKIY, M.T., akademik; QMAROVA, K.D.; LEVITSKAYA, S.A.

Amalgam polarography with stationary dropping mercury electrodes as a variant of coulometric analysis. Vest. AN Kazakh. SSR 20 nc.2:81-84 (MIRA 18:1)

1. AN Kazakhskoy SSR (for Kozlovskiy).

ROZIOVSKIY, M.T.: LEAGAVISEVA, N.A.

Indlum sementation by cadmium emalgam in solutions of hydrochleric acid and sodium chloride. Zhur. prikl. Phim. 37 no.9:2055-2058 S 164.

(MIRA 17:10)

L 23L90_65 BAT(B)/BMP(6)/BMP(6) 30 ACCESSION NRIVAP8002188 5 S/0080/64/032/042

8/0080/64/037/012/2606/261

AUTHOR: Gladyshev, V. P. ; Cember, C. A., Geynizikis, K. Ya.; Kozlovskiy, M. 5.

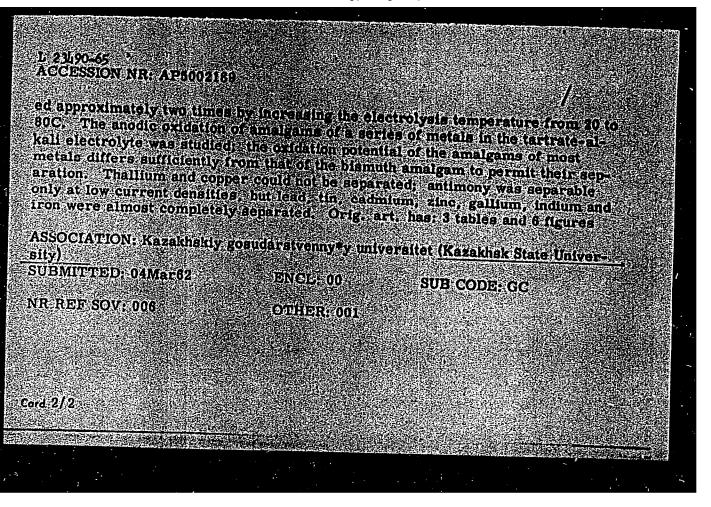
Of works on the separation of bismuth from legic and certain other metals by the amaigam method.

SOURCE: Zhurnal prikladnov khimif v 37, no. 12, 1964, 2606-2611

TOPIC TAGS: electrolysis; bismuth amaigam electrolysis, tartrate alkali electrolyte, bismuth separation

ABSTRACT: The electrochemical behavior of bismuth amalgam in tartrate-sikely electrolytes and the separation of bismuth from other metals by shock exidation of their mixed amalgams in these electrolytes were studied. Examination on effects of compositions and electrolyte component concentrations showed that the best electrolyte for precipitating bismuth upon anodic exidation of its amalgam comprised 5M KOR * 1M KN&C4R4O8. The maximum anodic current was increased

Card 1/2



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AUTHOR: Dragaviseva Niche, Bukiman, S. P., Miliatova, Ye. B., Kożlowskie, M. T

syndor siries oranistan elemente ambitant

SOURCE: Zhuchal neorgaincheakov knimit, v. 0. no. 12. 1964. 2734. 2755/

POPIC:///AGS::: \$258716; \$melgam; cadmium: apialgam; electrolytic regulation; amalgam, casamic solubitics: melculos

ABSTRACT - While arrance is almost machine in mercury it was observed to pass into the mercury upon requalificant amargam in suburice and solution. This occurred without the formation of internetable compounds it will form an animal gam only it low suburic avid concentrations. Experimental reduction of trivalent arsenic by cadmum amargams (2 at 28) in suburic acid solution showed its reduction to arsine and elemental axeanic which was partly suspended partly amargam ated. The elemental formarias converted to the tribydride upon continuing the reaction increasing arsenic contents and decreasing acid concentration increased

Cord 1/2

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the avsente amalgamation. The cadmium sontens was also found to influence dhis amalgamation, space culting valle reaction care and the distribution of elemental As between suspension and analysing inside absence of an excess of the metal accive meangements and ensure an examply annievous de reordistants (overvoisoren a creme tion it was possible to obtain anche amalgany practically (record cadmium, Reduct (on from a concentrated solution 6.0 g/siter) yielded an almost quantitative amac pemerionaea e 100 mercean (a 20 an anciency. Pleaso Vitos concitorea low current intensity (26-190 ms/cm) (3 in 1), sufficed acto solution continued for several deviction the absence of hydrogens constant in the absence of hydro goo'd sesulta 120 subvenision of delemental fistant archievere detected under iheserconditione; ហើយ electro/çitőlályroblameéramalgam (la alao a Zephase ayajem (Dur differs (conside one obtained flusouppe cementation by its Jesser volume, and therAsscotter and alloy are hesupper layer which come and the removed. Only care here search and solining

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Sciences, AN KazSSRI

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APPROVED FOR RELEASE: Monday, July 31, 2000

CIA-RDP86-00513R000825920(

RRASMOVA, I.Ye.; ZPERSVA, A.J.; EDZ. OVERLY, R.T., azaranik

Determination of the colability and if fusion operations of nickel in mercury by the remaid of analysis places with storage. Dekl. an SER 156 no. 2:415-17 My following 17:7)

1. Akademiya An Fazarhakoy EM (for Morlevekly).

ZEBREVA, A.I.; KOZLOVSKIY, M.T.

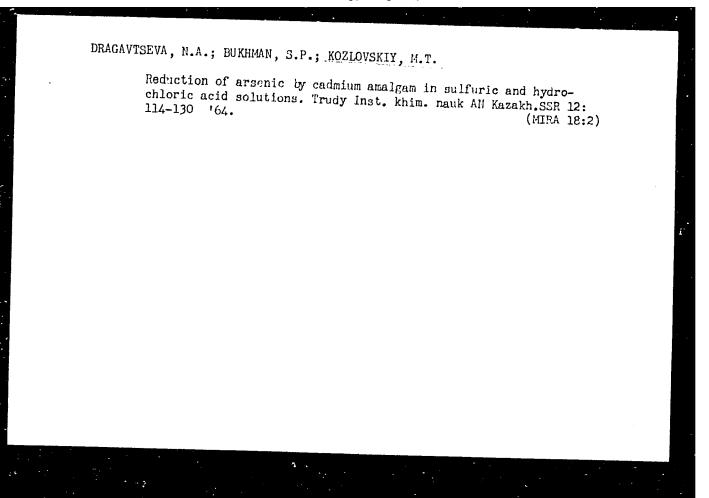
Effect of the formation of intermetallic compounds in the nmalgam methods for the determination of metals. Zav. lab. 30 mc.10:1193-1195 164. (MIR: 18:4)

1. Kazakhskiy gosudarstvennyy universitet imeni himova.

KOZLOVSKIY, M.T.; GLADYSHEV, V.P.; GAYNRIKHS, K. Ya.; TEMBER, G.A.

Separation of bismuth from lead and some other metals by the amalgam method in perchloric acid electrolytes. Zhur. prikl. khim. 37 no.11:2402-2407 N '64 (MIRA 18:1)

Kazakhskiy gosuderstvennyy universitet.



DRAGAVTSEVA, N.A.; KCZLOVSKIY, M.T.

Reduction of a trivalent antimony by a cadmium amalgam in tartrate-ammonia solutions. Izv. AN Kazakh. SSR. Ser. khim. nauk 14 no.1:9-14 Ja-Mr '64. (MIRA 18:3)

GLADYSHEV, V.P.; TEMBER, G.A.; GEYNRIKHS, K.Y..; KOZLOVSKIV, M.T.

Electrolysis in tartrate-alkali electrolytes. Thur. prizl. Rhim.
37 nc.12:2606-2611 D %. (MRA 19:3)

1. Kazakhakiy gosudarstvennyy universitet.

KOZLOVSKIY, M.T.

Electrochemical methods of concentration. Trudy Kom. anal. khim. 15:132-140 '65. (MIRA 18:7)

KOZLOVSKIY, M.T.; DRAGAVTSEVA, N.A.; BUKHMAN, S.P.

Effect of certain metals on the reduction of trivalent arsenic with cadmium amalgam. Izv. AN Kazakh.SSP.Ser.khim.nauk 15 no.2:3-7 Apje 165.

(MIRA 18:9)

BEIKIN, I.K., KOLOVSKIY, M.T.

Indy of the interaction of bi and trivalent vanadium with hydroinvlamine by potentiometric titration. Fzv. AN Kazakh. SSR. Ser. khim. nauk 15 no.2:8-14 Ap-Je 165. (MIRA 18:9)

SAGADIYEVA, K.Zh.; KOZLOVSKIY, M.T.

Amalgam polarography of indian. Inv. All Kazakh. SSR. Ser. khim. nauk 15 no.113-6 Jo-Mr 165. (MEW 18112)

BUKHMAN, S.P.; DRAGAVTSEVA, N.A.; KOZLOVSKIY, M.T.

Reduction of trivalent arsenic by amalgams of a series of metals. Izv. AN Kazakh. SSR. Ser. khim. nauk 15 no.1:9-12
Ja-Mr 165. (MIRA 18:12)

1. Submitted Nov. 2, 1964.

DRAGAVTSEVA, N.A.; BUKHMAN, S.P.; MURATOVA, Ye.B.; KOZLOVSKIY, M.T.

Formation of arsenic amalgam. Zhur. neorg. khim. 9 no.12:2734-2737 D '64. (MIRA 18:2)

1. Institut khimicheskikh nauk AN KazSSR.

ROBIGA AIY, Eikhall Timothyroxich; a CERCA, Vistor Laketmovich;

GerikerG, i.l., red.

[IaNZ diesel engines; their decirn and operation] Dizerbye dvigateli IaNZ; konstrukteila i oblimhivanie.

Eoskva, Transport, 1964. 132 p. (E.E. 17:11)

"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000825920

KOZLOVSKIY, N.

Cotton Growing

Tractor for the cultivation of cotton Khlopkovodstvo No. 2, 1952.

Monthly List of Russian Accessions, Library of Congress, June 1952. UNCLASSIFIED.

- 1. KOZLOVSKIY, N.
- 2. USSR (600)
- 4. Excavating Machinery
- Ditching machine model D=267 for the construction of distributing canals. Khlopkovodstvo No. 8, 1952.

9. Monthly List of Russian Accessions, Library of Congress, January 1953, Unclassified.

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CIA-RDP86-00513R000825920(

KOZLOVSKIY, Nikolay Fedorovich [Kozlovs'kyi, M.F.]; STADNICHENKO, G.S. [Stadnychenko. H.S.], red.; KONTAR, K.F., tekhn. red.

[Japan seen through the lons; news photographer's notes] V ob'iektyvi IAponiia; zapysky fotokorespondenta. Kyiv, Derzh.vydvo obrazotvorchoho mystetstva i muzychnoi lit-ry URSR, 1962. 69 p.
(MIRA 16:2)

(Japan-Views)

"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000825920

IVANOV, A. E.; KOZLOVSKIY, N. G.

Agriculture

Manual for the State-Farm Director, Moskva, Gos. izd-vo sel'khoz. lit-ry. Vol. 1, 1952.

Monthly List of Russian Accessions, Library of Congress, October 1952. UNCLASSIFIED.

IVANOV, A.Ye.; KOZLOVSKIV, N.G.; KALICHENKO, S.V., redaktor; MARTIYANOV, F.M., redaktor; PEROV, S.V., redaktor; PYLAYEVA, A.P., redaktor; THRESHCHENKO, N.I., redaktor; OVCHINNIKOVA, A.H., redaktor; HAKITINA, Ye.D., redaktor; VALLOD, A.I., tekhnicheskiy redaktor; VNSKOVA, Ye.I., tekhnicheskiy redaktor

[Handbook for directors of state farms] Spravochnaia kniga direktora sovkhoza. Izd. 3-e, perer. Moskva, Gos. izd-vo sel'khoz. lit-ry. Pt.1.1956. 952 p. Pt.2.1956. 1016 p. (MLM 10:3) (State farms)

OZHIGANOV, V.S.; LEVANTO, M.A.; KOROLEVA, V.A.; Prinimali uchastiye:

KOZLOVSKIY, N.I.; ABOIMOV, P.S.; STARTSEVA, G.B.; KRIVONOSOVA, R.B.;

SHERSTYUK, M.I.; KONOVALOVA, T.S.; ZHABOTINSKIY, I.M.; RADIN, F.A.

Improving the technology of producing electrical steel. Stal' 22 no.4:343-346 Ap '62. (MIRA 15:5)

1. Verkh-Isetskiy metallurgicheskiy zavod. (Steel-Electric properties)

ZAKHARCHENKO, A.L., inzh.; MARAKHTANOV, K.P., inzh.; GORBUHOV, V.R., inzh.; ZHIVCHIKOV, N.I., inzh.; KOZLOVSKIY, N.I., inzh.; BARSUKOV, A.F., red.; PECHENKIN, I.V., tekhn.red.

[New tractors and agricultural machinery; results of testing in 1957] Novye traktory i sel'skokhoziaistvennye mashiny; resul'taty ispytanii 1957 goda. Moskva, No.2. 1959. 331 p.

(MIRA 13:12)

1. Russia (1923- U.S.S.R.) Glavnoye upravleniye mekhanizatsii i elektrifikatsii sel'akogo khozyayatva.

(Tractors--Testing)
(Agricultural machinery--Testing)

BOGDASHIH, A.S.; BOGORODSKIY, A.A.; VINGARDT, N.B.; GORBUNOV, V.I.;

GORBUNOV, V.R.; DUROV, V.K.; YERMAKOV, A.L.; IVANOV, A.A.;

KARAKOVA, N.I.; KOBYLYAKOV, L.M.; KOZLOVSKIY, N.I.; MARAKHTAHOV,

K.P.; MIRUMYAN, G.N.; NECUKTOV, G.P.; NOVIKOV, A.G.; CL'KHOVSKIY,

K.I.; PESTRYAKOV, A.I.; POLAPANOV, A.V.; SKLYAREVSKAYA, Ye.Kh.;

SOLDATENKOV, S.I.; SOROKIN, Ye.M.; TRUSHINA, Z.V.; FEDOROV, P.F.;

FEDOSEYEV, A.M.; FROG, N.P.; SHAMAYEV, G.P.; YANOVSKIY, V.Ya.;

OREKHOV, A.D., spetsred.; DEYEVA, V.M., tekhn.red.

[Handbook on new agricultural machinery] Spravochnik po novoi tekhnike v sel'skom khozisistve. Moskva, Gos.izd-vo sel'khoz. lit-ry, 1959. 364 p. (MIRA 13:2) (Agricultural machinery)

"APPROVED FOR RELEASE: Monday, July 31, 2000

CIA-RDP86-00513R000825920

	COUNTY CATENCAY	USSR Cuitive ted Plants. Cormercial. Cleirerous.
	A.C. JOCK.	Eller r-Bon ming. 1959, No. 1748
	MARIOR TIMEM TIMEM	Lowlonship, N.L. Cultivation or Sugar Sect in Italy.
	. Mio. Pub.	* Sa charmaya svokla, 1958, No. 6, 1974
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